SUPPLEMENT TO

DEEP-SEA RESEARCH

PART I

OCEANOGRAPHIC RESEARCH PAPERS

VOLUME 43, 1996

VOLUME CONTENTS AND AUTHOR INDEX

Editor:

DR MICHAEL P. BACON: *Department of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, Woods Hole, MA 02543, U.S.A.*

Founder Editor: DR MARY SEARS

PERGAMON

DEEP-SEA RESEARCH I

Editor

DR MICHAEL P. BACON: *Department of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, Woods Hole, MA 02543, U.S.A. Email: deepseamag@whoi.edu*

Associate Editors

D. M. ALONGI (*Benthic Biology*)
Australian Institute of Marine Science, PMB No. 3, Townsville Mail Centre, Queensland 4810, Australia

P. H. BURKILL (*Pelagic Foodwebs*)
Plymouth Marine Laboratory, Prospect Place, Plymouth PL1 3DH, U.K.

C. GARRETT (*Ocean Physics*)
Department of Physics and Astronomy, University of Victoria, P.O. Box 3055, Victoria, BC, Canada V8W 3P6

S. M. HENRICHS (*Chemistry*)
Institute of Marine Science, University of Alaska, Fairbanks, AK 99775-1080, U.S.A.

J. MARRA (*Productivity*)
Lamont-Doherty Earth Observatory, Palisades, NY 10964, U.S.A.

J. F. PRICE (*Ocean Circulation*)
Physical Oceanography Department, Woods Hole Oceanographic Institution, Woods Hole, MA 02543, U.S.A.

V. SMETACEK (*Vertical Fluxes*)
Alfred-Wegener-Institut für Polar- und Meeresforschung, Am Handelshafen 12, D-27570 Bremerhaven, Germany

Founder Editor: DR MARY SEARS

Editorial Production: Elsevier Science Ltd, Oxford OX5 1GB, U.K. (Tel.: 01865 843883)
Publishing and Advertising Offices: Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K. Tel.: (+1865) 843000, Fax (+1865) 843010

Periodicals postage paid at Newark, NJ. *Deep-Sea Research I* (ISSN 0967-0637) is published monthly by Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, U.K. The annual subscription in the U.S.A. is $2431.00. *Deep-Sea Research I* is distributed by Mercury Airfreight International Ltd, 10 Camptown Rd, Irvington, New Jersey 07111–1105, U.S.A. Postmaster: Please send address corrections to *Deep-Sea Research I*, c/o Elsevier Science Regional Sales Office, Customer Support Department, 655 Avenue of the Americas, New York, NY 10010, U.S.A. [Tel.: (+1) 212 633 3730/1–888 4ES-INFO, Fax: (+1) 212 633 3680, e-mail: usinfo-f@elsevier.com].

Frequency: published monthly

Subscription Information

Annual Institutional Subscription Rates (1997): Europe, The CIS and Japan 3939 Dutch Guilders. All other countries U.S. $2431. This includes Part I and Part II (Topical Studies in Oceanography). Associated Personal Subscription Rates are available on request for those whose institutions are library subscribers. Annual Institutional Subscription Rates (1977) for *Deep-Sea Research* Parts I and II with *Oceanographic Literature Review*: Europe, The CIS and Japan, 5028 Dutch Guilders, all other countries, U.S. $3104. Dutch Guilder prices exclude VAT. Non-VAT registered customers in the European Community will be charged the appropriate VAT in addition to the price listed. Prices include postage and insurance and are subject to change without notice.

Any enquiry relating to subscriptions should be sent to: **The Americas**: Elsevier Science, Customer Support Department, P.O. Box 945, New York, NY 10010, U.S.A. [Tel.: (+1) 212 633 3730/1–888 4ES-INFO, Fax: (+1) 212 633 3680, e-mail: usinfo-f@elsevier.com]. **Japan**: Elsevier Science, Customer Support Department, 9–15 Higashi-Azabu 1-chome, Minato-ku, Tokyo 106, Japan. [Tel.: (+3) 5561 5033, Fax: (+3) 5561 5047, e-mail: kyf04035@niftyserve.or.jp]. **Asia Pacific (*excluding Japan*)**: Elsevier Science (Singapore) Pte Ltd, No. 1 Temasek Avenue, 17–01 Millenia Tower, Singapore 039192. [Tel.: (+65) 434 3727, Fax: (+65) 337 2230, e-mail: asiainfo@elsevier.com.sg]. **Rest of the World**: Elsevier Science, Customer Service Department, P.O. Box 211, 1001 AE Amsterdam, The Netherlands. [Tel.: (+31) 20 485 3757, Fax: (+31) 20 485 3432, e-mail: nlinfo-f@elsevier.nl]. For orders, claims, product enquiries (no manuscript enquiries) please contact the Customer Support Department at the Regional Sales Office nearest to you.

Copyright © 1997 Elsevier Science Ltd. All rights reserved.

Back Issues: Back issues of all previously published volumes are available direct from Elsevier Science Offices (Oxford and New York). Complete volumes and single issues can be purchased for 1990–1995. Earlier issues are available in high quality photo-duplicated copies as complete volumes only. Back volumes on microfilm are available from UMI, 300 North Zeeb Road, Ann Arbor, MI 48106, U.S.A.

Contents of Volume 43

January

C. JEANDEL, B. DUPRÉ, G. LEBARON, C. MONNIN and J.-F. MINSTER — 1 — Longitudinal distributions of dissolved barium, silica and alkalinity in the western and southern Indian Ocean

M. VOSS, M. A. ALTABET and B. v. BODUNGEN — 33 — $\delta^{15}N$ in sedimenting particles as indicator of euphotic-zone processes

P. LEHODEY and R. GRANDPERRIN — 49 — Influence of temperature and ENSO events on the growth of the deep demersal fish alfonsino, *Beryx splendens*, off New Caledonia in the western tropical South Pacific Ocean

E. A. PAKHOMOV and R. PERISSINOTTO — 59 — Antarctic neritic krill *Euphausia crystallorophias*: spatio–temporal distribution, growth and grazing rates

List of Contents for *Continental Shelf Research*, Vol. 16, Nos 1–4 — i

February

D. KADKO and D. OLSON — 89 — Beryllium-7 as a tracer of surface water subduction and mixed-layer history

J.- R. DONGUY and G. MEYERS — 117 — Seasonal variations of sea-surface salinity and temperature in the tropical Indian Ocean

W. HAGEN and S. B. SCHNACK-SCHIEL — 139 — Seasonal lipid dynamics in dominant Antarctic copepods: Energy for overwintering or reproduction?

P. BRASSEUR, J. M. BECKERS, J. M. BRANKART and R. SCHOENAUEN — 159 — Seasonal temperature and salinity fields in the Mediterranean Sea: Climatological analyses of a historical data set

L. THOMPSON and G. C. JOHNSON — 193 — Abyssal currents generated by diffusion and geothermal heating over rises

J. R. E. LUTJEHARMS and J. COOPER — 213 — Interbasin leakage through Agulhas Current filaments

R. J. MURNANE, J. K. COCHRAN, K. O. BUESSELER and M. P. BACON — 239 — Least-squares estimates of thorium, particle, and nutrient cycling rate constants from the JGOFS North Atlantic Bloom Experiment

Note

P. H. SANTSCHI, D. R. SCHINK, O. CORAPCIOGLU, S. OKTAY-MARSHALL, U. FEHN and P. SHARMA — 259 — Evidence for elevated levels of iodine-129 in the Deep Western Boundary Current in the Middle Atlantic Bight

List of Contents for *Continental Shelf Research*, Vol. 16, Nos 5–7 — i

March

C. E. MORALES, J. L. BLANCO, M. BRAUN, H. REYES and N. SILVA — 267 — Chlorophyll-*a* distribution and associated oceanographic conditions in the upwelling region off northern Chile during the winter and spring 1993

Y. YOU — 291 — Dianeutral mixing in the thermocline of the Indian Ocean

A. BOUGHRIET, B. OUDDANE, M. WARTEL, C. LALOU, C. CORDIER, L. GENGEMBRE and J. P. SANCHEZ — 321 — On the oxidation states of Mn and Fe in polymetallic oxide/oxyhydroxide crusts from the Atlantic Ocean

S. DETERMANN, R. REUTER and R. WILLKOMM — 345 — Fluorescent matter in the eastern Atlantic Ocean. Part 2: Vertical profiles and relation to water masses

A. ABELMANN and M. M. GOWING — 361 — Horizontal and vertical distribution pattern of living radiolarians along a transect from the Southern Ocean to the South Atlantic subtropical region

List of Contents for *Continental Shelf Research*, Vol. 16, Nos 8–10 — i

April

F. L. SAYLES, W. G. DEUSER, J. E. GOUDREAU, W. H. DICKINSON, T. D. JICKELLS and P. KING — 383 — The benthic cycle of biogenic opal at the Bermuda Atlantic Time Series Site

J.-C. ROMANO — 411 — Sea-surface slick occurrence in the open sea (Mediterranean, Red Sea, Indian Ocean) in relation to wind speed

M. J. WHITEHOUSE, J. PRIDDLE and C. SYMON — 425 — Seasonal and annual change in seawater temperature, salinity, nutrient and chlorophyll *a* distributions around South Georgia, South Atlantic

S.-Y. CHAO, P.-T. SHAW and S. Y. WU — 445 — Deep Water ventilation in the South China Sea

L. OTTO and H. M. VAN AKEN — 467 — Surface circulation in the northeast Atlantic as observed with drifters

S. E. WIJFFELS, J. M. TOOLE, H. L. BRYDEN, R. A. FINE, W. J. JENKINS and J. L. BULLISTER — 501 — The water masses and circulation at 10°N in the Pacific

D. THISTLE and G. D. F. WILSON — 545 — Is the HEBBLE isopod fauna hydrodynamically modified? A second test

K. J. HEYWOOD, D. P. STEVENS and G. R. BIGG — 555 — Eddy formation behind the tropical island of Aldabra

List of Contents for *Continental Shelf Research*, Vol. 16, Nos 11–12 — i

May

C. MACQUART-MOULIN and G. PATRITI	579	Accumulation of migratory micronekton crustaceans over the upper slope and submarine canyons of the northwestern Mediterranean
R. A. NUNES VAZ and G. W. LENNON	603	Physical oceanography of the Prydz Bay region of Antarctic waters
A. P. CUNNINGHAM and P. F. BARKER	643	Evidence for westward-flowing Weddell Sea Deep Water in the Falkland Trough, western South Atlantic
G. ZODIATIS and G. P. GASPARINI	655	Thermohaline staircase formations in the Tyrrhenian Sea
P. S. HILL	679	Sectional and discrete representations of floc breakage in agitated suspensions
P. W. FRONEMAN and R. PERISSINOTTO	703	Microzooplankton grazing and protozooplankton community structure in the South Atlantic and in the Atlantic sector of the Southern Ocean
R. C. TIAN, J. C. MARTY, E. NICOLAS, J. CHIAVÉRINI, D. RUIZ-PINO and M. D. PIZAY	723	Iodine speciation: a potential indicator to evaluate new production versus regenerated production
S. J. WEEKS and F. A. SHILLINGTON	739	Phytoplankton pigment distribution and frontal structure in the subtropical convergence region south of Africa

June

C. MAURITZEN	769	Production of dense overflow waters feeding the North Atlantic across the Greenland–Scotland Ridge. Part 1: Evidence for a revised circulation scheme
C. MAURITZEN	807	Production of dense overflow waters feeding the North Atlantic across the Greenland–Scotland Ridge. Part 2: An inverse model
J. F. DOWER and D. L. MACKAS	837	"Seamount effects" in the zooplankton community near Cobb Seamount
C. ALBÉROLA, C. MILLOT, U. SEND, C. MERTENS and J.-L. FUDA	859	Comparison of XCTD/CTD data
J. BLANCHOT and M. RODIER	877	Picophytoplankton abundance and biomass in the western tropical Pacific Ocean during the 1992 El Niño year: results from flow cytometry
M. MALDONADO and C. M. YOUNG	897	Bathymetric patterns of sponge distribution on the Bahamian slope
C. B. ALLEN, J. KANDA and E. A. LAWS	917	New production and photosynthetic rates within and outside a cyclonic mesoscale eddy in the North Pacific subtropical gyre

Instruments and Methods
B. A. KING, S. G. ALDERSON and D. CROMWELL — 937 Enhancement of shipboard ADCP data with DGPS position and GPS heading measurements

Note
S. WOTHERSPOON and J. D. DONALDSON — 949 Finite differences and internal tides—representing the boundary

959 Erratum

July

J. C. GOOLD, J. D. BENNELL and S. E. JONES — 961 Sound velocity measurements in spermaceti oil under the combined influences of temperature and pressure

T. D. JICKELLS, P. P. NEWTON, P. KING, R. S. LAMPITT and C. BOUTLE — 971 A comparison of sediment trap records of particle fluxes from 19 to 48°N in the northeast Atlantic and their relation to surface water productivity

C. I. MEASURES, T. L. KU, S. LUO, J. R. SOUTHON, X. XU and M. KUSAKABE — 987 The distribution of ^{10}Be and ^{9}Be in the South Atlantic

A. EIGENHEFR, W. KÜHN and G. RADACH — 1011 On the sensitivity of ecosystem box model simulations on mixed-layer depth estimates

V. ENOKSSON, E. FOGELQVIST and S. FONSELIUS — 1029 Nitrogen speciation and nitrification potential in the Skagerrak area during the SKAGEX IV experiment

E. J. LESSARD and M. C. MURRELL — 1045 Distribution, abundance and size composition of heterotrophic dinoflagellates and ciliates in the Sargasso Sea near Bermuda

J. FISCHER, M. RHEIN, F. SCHOTT and L. STRAMMA — 1067 Deep water masses and transports in the Vema Fracture Zone

L. M. L. LAUERMAN, R. S. KAUFMANN and K. L. SMITH Jr — 1075 Distribution and abundance of epibenthic megafauna at a long time-series station in the abyssal northeast Pacific

J.-R. DONGUY and G. MEYERS — 1105 Mean annual variation of transport of major currents in the tropical Pacific Ocean

T. DELCROIX, C. HENIN, V. PORTE and P. ARKIN — 1123 Precipitation and sea-surface salinity in the tropical Pacific Ocean

August

D. NOF — 1143 Rotational turbidity flows and the 1929 Grand Banks earthquake

C. A. LLEWELLYN and R. F. C. MANTOURA — 1165 Pigment biomarkers and particulate carbon in the upper water column compared to the ocean interior of the northeast Atlantic

Special Section: EUMELI Program

A. MOREL 1185 An ocean flux study in eutrophic, mesotrophic and oligotrophic situations: the EUMELI program

F. PARTENSKY, J. BLANCHOT, F. LANTOINE, J. NEVEUX and D. MARIE 1191 Vertical structure of picophytoplankton at different trophic sites of the tropical northeastern Atlantic Ocean

L. LAZZARA, A. BRICAUD and H. CLAUSTRE 1215 Spectral absorption and fluorescence excitation properties of phytoplanktonic populations at a mesotrophic and an oligotrophic site in the tropical North Atlantic (EUMELI program)

M. BABIN, A. MOREL, H. CLAUSTRE, A. BRICAUD, Z. KOLBER and P. G. FALKOWSKI 1241 Nitrogen- and irradiance-dependent variations of the maximum quantum yield of carbon fixation in eutrophic, mesotrophic and oligotrophic marine systems

A. MOREL, D. ANTOINE, M. BABIN and Y. DANDONNEAU 1273 Measured and modeled primary production in the northeast Atlantic (EUMELI JGOFS program): the impact of natural variations in photosynthetic parameters on model predictive skill

PH. DUFOUR and J.-P. TORRÉTON 1305 Bottom-up and top-down control of bacterioplankton from eutrophic to oligotrophic sites in the tropical northeastern Atlantic Ocean

F. LEGELEUX, J.-L. REYSS, H. ETCHEBER and A. KHRIPOUNOFF 1321 Fluxes and balance of ^{210}Pb in the tropical northeast Atlantic

J.-C. RELEXANS, J. DEMING, A. DINET, J.-F. GAILLARD and M. SIBUET 1343 Sedimentary organic matter and micro-meiobenthos with relation to trophic conditions in the tropical northeast Atlantic

September

E. FERNÁNDEZ and R. D. PINGREE 1369 Coupling between physical and biological fields in the North Atlantic subtropical front southeast of the Azores

A. J. GOODAY 1395 Epifaunal and shallow infaunal foraminiferal communities at three abyssal NE Atlantic sites subject to differing phytodetritus input regimes

J. E. CARTES and J. C. SORBE 1423 Temporal population structure of deep-water cumaceans from the western Mediterranean slope

A. BOETIUS, S. SCHEIBE, A. TSELEPIDES and H. THIEL 1439 Microbial biomass and activities in deep-sea sediments of the Eastern Mediterranean: trenches are benthic hotspots

W. ZENK and N. HOGG 1461 Warming trend in Antarctic Bottom Water flowing into the Brazil Basin

T. PICHEVIN and D. NOF 1475 The eddy cannon

C. L. VAN DOVER, D. DESBRUYÈRES, M. SEGONZAC, T. COMTET, L. SALDANHA, A. FIALA-MÉDIONI and C. LANGMUIR — 1509 — Biology of the Lucky Strike hydrothermal field

A. J. MARIANO, G. L. HITCHCOCK, C. J. ASHJIAN, D. B. OLSON, T. ROSSBY, E. RYAN and S. L. SMITH — 1531 — Principal component analysis of biological and physical variability in a Gulf Stream meander crest

October

D. R. JONES, D. M. KARL and E. A. LAWS — 1567 — Growth rates and production of heterotrophic bacteria and phytoplankton in the North Pacific subtropical gyre

A. D. ROGERS, R. GIBSON and V. TUNNICLIFFE — 1581 — A new genus and species of monostiliferous hoplonemertean colonizing an inchoate hydrothermal field on Juan de Fuca Ridge

G. C. HAYS — 1601 — Large-scale patterns of diel vertical migration in the North Atlantic

A. E. RATHBURN, B. H. CORLISS, K. D. TAPPA and K. C. LOHMANN — 1617 — Comparisons of the ecology and stable isotopic compositions of living (stained) benthic foraminifera from the Sulu and South China Seas

J. HARDY, A. HANNEMAN, M. BEHRENFELD and R. HORNER — 1647 — Environmental biogeography of near-surface phytoplankton in the southeast Pacific Ocean

Note
W. KRAUSS — 1661 — A note on overflow eddies

Instruments and Methods
R. C. UPSTILL-GODDARD, A. P. REES and N. J. P. OWENS — 1669 — Simultaneous high-precision measurements of methane and nitrous oxide in water and seawater by single phase equilibration gas chromatography

List of Contents for *Continental Shelf Research*, Vol. 16, Nos 13 and 14 — i

November/December

K. S. LACKSCHEWITZ, R. ENDLER, B. GEHRKE, H.-J. WALLRABE-ADAMS and J. THIEDE — 1683 — Evidence for topography- and current-controlled deposition on the Reykjanes Ridge between 59°N and 60°N

E. J. H. HEAD, W. G. HARRISON, B. I. IRWIN, E. P. W. HORNE and W. K. W. LI — 1713 — Plankton dynamics and carbon flux in an area of upwelling off the coast of Morocco

J. P. BARRY, H. G. GREENE, D. L. ORANGE, C. H. BAXTER, B. H. ROBISON, R. E. KOCHEVAR, J. W. NYBAKKEN, D. L. REED and C. M. McHUGH — 1739 Biologic and geologic characteristics of cold seeps in Monterey Bay, California

C. M. SAKAMOTO, G. E. FRIEDERICH, S. K. SERVICE and F. P. CHAVEZ — 1763 Development of automated surface seawater nitrate mapping systems for use in open ocean and coastal waters

B. KLEIN and N. HOGG — 1777 On the variability of 18 Degree Water formation as observed from moored instruments at 55°W

C. L. SMITH, K. J. RICHARDS and M. J. R. FASHAM — 1807 The impact of mesoscale eddies on plankton dynamics in the upper ocean

Instruments and Methods

C. HÉNIN and J. GRELET — 1833 A merchant ship thermo-salinograph network in the Pacific Ocean

Notes

F. LEGELEUX and J.-L. REYSS — 1857 $^{228}Ra/^{226}Ra$ activity ratio in oceanic settling particles: implications regarding the use of barium as a proxy for paleoproductivity reconstruction

K. D. SQUIRES and H. YAMAZAKI — 1865 Addendum to the paper "Preferential concentration of marine particles in isotropic turbulence"

J. A. RESING and F. J. SANSONE — 1867 Al and pH anomalies in the Manus Basin reappraised: comments on the paper by T. Gamo *et al.*, "Hydrothermal plumes in the eastern Manus Basin, Bismarck Sea: CH_4, Mn, Al and pH anomalies"

T. GAMO, J. ISHIBASHI and K. SHITASHIMA — 1873 Unique hydrothermal fluid from the DESMOS caldera, Manus Basin: reply to comments by J. A. Resing and F. J. Sansone

AUTHOR INDEX

Abelmann, A. 361
Albérola, C. 859
Alderson, S. G. 937
Allen, C. B. 917
Altabet, M. A. 33
Antoine, D. 1273
Arkin, P. 1123
Ashjian, C. J. 1531

Babin, M. 1241, 1273
Bacon, M. P. 239
Barker, P. F. 643
Barry, J. P. 1739
Baxter, C. H. 1739
Beckers, J. M. 159
Behrenfeld, M. 1647
Bennell, J. D. 961
Bigg, G. R. 555
Blanchot, J. 877, 1191
Blanco, J. L. 267
Bodungen, B. v. 33
Boetius, A. 1439
Boughriet, A. 321
Boutle, C. 971
Brankart, J. M. 159
Brasseur, P. 159
Braun, M. 267
Bricaud, A. 1215, 1241
Bryden, H. L. 501
Buesseler, K. O. 239
Bullister, J. L. 501

Cartes, J. E. 1423
Chao, S.-Y. 445
Chavez, F. P. 1763
Chiavérini, J. 723
Claustre, H. 1215, 1241
Cochran, J. K. 239
Comtet, T. 1509
Cooper, J. 213
Corapcioglu, O. 259
Cordier, C. 321
Corliss, B. H. 1617
Cromwell, D. 937
Cunningham, A. P. 643

Dandonneau, Y. 1273
Delcroix, T. 1123
Deming, J. 1343
Desbruyères, D. 1509
Determann, S. 345
Deuser, W. G. 383
Dickinson, W. H. 383
Dinet, A. 1343
Donaldson, J. D. 949
Donguy, J.-R. 117, 1105
Dower, J. F. 837
Dufour, PH. 1305
Dupré, B. 1

Eigenheer, A. 1011
Endler, R. 1683
Enoksson, V. 1029
Etcheber, H. 1321

Falkowski, P. G. 1241
Fasham, M. J. R. 1807
Fehn, U. 259
Fernández, E. 1369
Fiala-Médioni, A. 1509
Fine, R. A. 501
Fischer, J. 1067
Fogelqvist, E. 1029
Fonselius, S. 1029
Friederich, G. E. 1763
Froneman, P. W. 703
Fuda, J.-L. 859

Gaillard, J.-F. 1343
Gamo, T. 1873
Gasparini, G. P. 655
Gehrke, B. 1683
Gengembre, L. 321
Gibson, R. 1581
Gooday, A. J. 1395
Goold, J. C. 961
Goudreau, J. E. 383
Gowing, M. M. 361
Grandperrin, R. 49
Greene, H. G. 1739
Grelet, J. 1833

Hagen, W. 139
Hanneman, A. 1647
Hardy, J. 1647
Harrison, W. G. 1713
Hays, G. C. 1601
Head, E. J. H. 1713
Henin, C. 1123, 1833
Heywood, K. J. 555
Hill, P. S. 679
Hitchcock, G. L. 1531

Hogg, N. 1461, 1777
Horne, E. P. W. 1713
Horner, R. 1647

Irwin, B. I. 1713
Ishibashi, J. 1873

Jeandel, C. 1
Jenkins, W. J. 501
Jickells, T. D. 383, 971
Johnson, G. C. 193
Jones, D. R. 1567
Jones, S. E. 961

Kadko, D. 89
Kanda, J. 917
Karl, D. M. 1567
Kaufmann, R. S. 1075
Khripounoff, A. 1321
King, B. A. 937
King, P. 383, 971
Klein, B. 1777
Kochevar, R. E. 1739
Kolber, Z. 1241
Krauss, W. 1661
Ku, T. L. 987
Kühn, W. 1011
Kusakabe, M. 987

Lackschewitz, K. S. 1683
Lalou, C. 321
Lampitt, R. S. 971
Langmuir, C. 1509
Lantoine, F. 1191
Lauerman, L. M. L. 1075
Laws, E. A. 917, 1567
Lazzara, L. 1215
Lebaron, G. 1
Legeleux, F. 1321, 1857
Lehodey, P. 49
Lennon, G. W. 603
Lessard, E. J. 1045
Li, W. K. W. 1713
Llewellyn, C. A. 1165
Lohmann, K. C. 1617
Luo, S. 987
Lutjeharms, J. R. E. 213

Mackas, D. L. 837
Macquart-Moulin, C. 579
Maldonado, M. 897
Mantoura, R. F. C. 1165
Mariano, A. J. 1531
Marie, D. 1191
Marty, J. C. 723
Mauritzen, C. 769, 807
McHugh, C. M. 1739
Measures, C. I. 987
Mertens, C. 859
Meyers, G. 117, 1105
Millot, C. 859
Minster, J.-F. 1
Monnin, C. 1
Morales, C. E. 267
Morel, A. 1185, 1241, 1273
Murnane, R. J. 239
Murrell, M. C. 1045

Neveux, J. 1191
Newton, P. P. 971
Nicolas, E. 723
Nof, D. 1143, 1475
Nunes Vaz, R. A. 603
Nybakken, J. W. 1739

Oktay-Marshall, S. 259
Olson, D. B. 1531
Olson, D. 89
Orange, D. L. 1739
Otto, L. 467
Ouddane, B. 321
Owens, N. J. P. 1669

Pakhomov, E. A. 59
Partensky, F. 1191
Patriti, G. 579
Perissinotto, R. 59, 703
Pichevin, T. 1475
Pingree, R. D. 1369
Pizay, M. D. 723
Porte, V. 1123
Priddle, J. 425

Radach, G. 1011
Rathburn, A. E. 1617
Reed, D. L. 1739
Rees, A. P. 1669
Relexans, J.-C. 1343
Resing, J. A. 1867
Reuter, R. 345
Reyes, H. 267
Reyss, J.-L. 1321, 1857
Rhein, M. 1067
Richards, K. J. 1807
Robison, B. H. 1739
Rodier, M. 877

Rogers, A. D. 1581
Romano, J.-C. 411
Rossby, T. 1531
Ruiz-Pino, D. 723
Ryan, E. 1531

Sakamoto, C. M. 1763
Saldanha, L. 1509
Sanchez, J. P. 321
Sansone, F. J. 1867
Santschi, P. H. 259
Sayles, F. L. 383
Scheibe, S. 1439
Schink, D. R. 259
Schnack-Schiel, S. B. 139
Schoenauen, R. 159
Schott, F. 1067
Segonzac, M. 1509
Send, U. 859
Service, S. K. 1763
Sharma, P. 259
Shaw, P.-T. 445
Shillington, F. A. 739
Shitashima, K. 1873
Sibuet, M. 1343
Silva, N. 267
Smith, C. L. 1807
Smith Jr, K. L. 1075
Smith, S. L. 1531
Sorbe, J. C. 1423
Southon, J. R. 987
Squires, K. D. 1865
Stevens, D. P. 555
Stramma, L. 1067
Symon, C. 425

Tappa, K. D. 1617
Thiede, J. 1683
Thiel, H. 1439
Thistle, D. 545
Thompson, L. 193
Tian, R. C. 723
Toole, J. M. 501
Torréton, J.-P. 1305
Tselepides, A. 1439
Tunnicliffe, V. 1581

Upstill-Goddard, R. C. 1669

Van Aken, H. M. 467
Van Dover, C. L. 1509
Voss, M. 33

Wallrabe-Adams, H.-J. 1683
Wartel, M. 321
Weeks, S. J. 739
Whitehouse, M. J. 425
Wijffels, S. E. 501
Willkomm, R. 345
Wilson, G. D. F. 545
Wotherspoon, S. 949
Wu, S. Y. 445

Xu, X. 987

Yamazaki, H. 1865
You, Y. 291
Young, C. M. 897

Zenk, W. 1461
Zodiatis, G. 655

Printed in Great Britain by Hobbs the Printers Ltd., Southampton SO40 3WX